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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/764,552 | 01/27/2004 | Dong-Keon Kong | 46235 | 9586 |

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EXAMINER

PEACHES, RANDY

ART UNIT PAPER NUMBER

2617

DATE MAILED: 06/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|--------------------------------------|------------------------------------|--|
| Office Action Summary | Application No. 10/764,552 | Applicant(s) KONG ET AL. | |
| | Examiner Randy Peaches | Art Unit 2617 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 January 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-10,12,13 and 15-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-10,12,13 and 15-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. ***Claims 1,2,4-10,12,13 and 15-18*** are rejected under 35 U.S.C. 102(e) as being anticipated by Rezaiifar et al. (U.S. Patent Publication Number 2004/0120283 A1).

Regarding ***claims 1 and 12***, Rezaiifar et al. discloses a method of paging in a wireless communication system (250), which reads on claimed "mobile communication systems," hereinafter referenced mobile communication systems the method comprising the steps of:

- a mobile station (MS-268), which reads on claimed "mobile terminal," transmitting a location registration message to a said wireless communication system (250) via the Base Transceiver Station (BTS-x 266) and the BSC_264, (see paragraph [0065]), wherein the wireless communications system comprises a circuit switched network. See FIGURE 1;
- the said wireless communication system (250) transmitting location information to a heterogeneous mobile communication system, hereinafter referenced as

networks "heterogeneous mobile communication system 260 and 270", See FIGURE 6 and 7, which includes a Mobile Switching Center (MSC_1262), wherein the heterogeneous wireless communications system comprises a packet switched network providing both voice and data transmissions. See paragraph [0032] FIGURE 1. Rezaiifar et al. inherently provides support for the registering of the said MS in a respected network, as evidenced by the fact that one of ordinary skill in the art would have recognized the that referenced MS, as disclosed in paragraph [0067] that the said MS is performing a registering process with the network which included the sending of the respected information required for a successful registration.

- heterogeneous mobile communication system 260 and 270 requesting the said wireless communication system (250) to page the said mobile station according to the received information. See paragraph [0065]; and
- the mobile communication system paging the said mobile station. See paragraph [0065].

Regarding **claim 2**, according to **claim 1**, Rezaiifar et al. continues to disclose wherein a step of the heterogeneous mobile communication system 260 and 270 setting up a packet data call with the mobile terminal and the heterogeneous mobile communication system 260 and 270 providing the mobile station with packet data service. See paragraph [0065].

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Regarding **claims 4 and 13**, according to **claims 1 and 12**, Rezaiifar et al. continues to disclose wherein the location information further includes a first identifier, which includes the sector id, 32-bit RAND or UATI. See paragraph [0044 and 0068-0069].

Regarding **claims 5 and 17**, according to **claims 4 and 13**, Rezaiifar et al. continues to disclose wherein a step of the heterogeneous mobile communication system registering the first identifier and the location information. See paragraphs [0044 and 0071].

Regarding **claims 6 and 18**, according to **claims 5 and 13**, Rezaiifar et al. continues to disclose wherein the heterogeneous mobile communication system changes the first identifier to a second identifier which is randomly generated to identify the mobile terminal. See paragraph [0069 and 0044].

Regarding **claims 7 and 15**, according to **claims 1 and 12**, Rezaiifar et al. continues to disclose wherein the location registration message further includes information, wherein Rezaiifar et al. teaches in paragraph [0066] of the use of a hybrid protocol by providing communication through both the circuit-switched networks and a packet-switched network, in order to determine whether or not the heterogeneous mobile communication system registers the location information of the mobile terminal. See paragraphs [006 and 0067].

Regarding **claim 8**, Rezaiifar et al. discloses a method of cross-paging from wireless communication system (250) to a mobile station, the method comprising the steps of:

- determining whether the said mobile station has been location-registered in the wireless communication system (250) or in heterogeneous mobile communication system 260 and 270, see paragraph [0069] with reference to pre-registered location information of the said mobile station when paging request of the mobile terminal occurs in the said heterogeneous mobile communication system 260 and 270. See paragraph [0044 and 0074], wherein the wireless communications system comprises a circuit switched network. See FIGURE 1; and the heterogeneous mobile communication system 260 and 270, wherein the said heterogeneous network can support either CDMA 2000 or IS 856 only, which reads on claimed "provides packet data service." See paragraph [0065-0066];
- transmitting a cross-paging message from the said heterogeneous mobile communication system 260 and 270 to the mobile communication system if the mobile terminal has been location-registered in the mobile communication system. See paragraph [0049 and 0076-0078]; and
- transmitting a paging message to the mobile terminal in response to the cross-paging message in the mobile communication system. See paragraph [0065].

Regarding **claim 9**, according to **claim 8**, Rezaiifar et al. continues to disclose wherein the heterogeneous mobile communication system determines that the mobile terminal

has been location-registered in the mobile communication system if a pre-registered identifier is a first identifier for identification in the mobile communication system, and that the mobile terminal has been location-registered in the mobile communication system if a pre-registered identifier is a second identifier for identification in the heterogeneous mobile communication system. See paragraphs [0044 and 0047]

Regarding **claim 10**, according to **claim 8**, Rezaiifar et al. continues to disclose wherein the cross-paging message includes information for requesting that a data call is set up with the heterogeneous mobile communication system 260 and 270. See paragraphs [0066].

Regarding **claim 11**, according to **claim 8**, Rezaiifar et al. continues to disclose wherein the mobile communication system provides voice service and packet data service and the heterogeneous mobile communication system 260 and 270 provides packet data service. See paragraphs [0065 – 0066].

Regarding **claim 16**, according to **claim 12**, Rezaiifar et al. continues to disclose wherein the mobile communication system pages to the mobile terminal. See paragraph [0065].

Response to Arguments

Applicant's arguments filed 1/04/2006 have been fully considered but they are not persuasive.

Regarding claims 1-18, the Applicant asserts that the Examiner's cited prior art of Rezaifar et al. fails to clearly disclose wherein the said wireless communication system comprises a circuit switched network and the heterogeneous wireless communication system comprises a packet switched network. However, after further search, the Examiner maintains that Rezaifar et al. does indeed disclose in FIGURE 1 and paragraphs 0029, 0032, 0039 and 0042 wherein there are two distinct networks capable of performing communication services.

Therefore, based on the information contained in the above office action and ***claims 1-18*** stand rejected.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any


extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Peaches whose telephone number is (571) 272-7914. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Randy Peaches
June 8, 2006


CHARLES APPIAH
PRIMARY EXAMINER